**Andrew Orellana**

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Network Engineer | Solution Architect | Data Center Engineer

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**Summary**

Senior Network Engineer and Solution Architect with extensive experience designing, deploying, and supporting enterprise and cloud-scale data center networks. Over a decade of hands-on expertise in:

* InfiniBand & High-Performance Fabrics – Architected and implemented 400G NDR and 800G XDR InfiniBand solutions to support high-throughput, low-latency workloads in advanced compute and AI environments.
* Arista Data Center Fabrics – Delivered scalable leaf-spine architectures leveraging 7010 TOR, 7280R, and 7500R platforms, powered by Arista EOS for programmability and automation. Implemented CloudVision for centralized provisioning, monitoring, compliance, and lifecycle automation (supported at Nvidia, Tesla, LAFO, and Oracle).
* Cisco & Multivendor Networking – Supported migrations and integrations across Cisco, Arista, Dell, and Mellanox platforms, with expertise in high-performance switching, routing, and data center interconnects.
* Automation & Scripting – Applied Python, Ansible, and Bash to automate provisioning, network validation, IP/DNS assignments, and multi-vendor configuration management. Integrated Terraform for AWS and Azure network automation.
* Cloud & Virtualization – Enabled hybrid cloud networking strategies with AWS and Azure, optimizing workload distribution and automation pipelines.
* Security & Compliance – Ensured secure deployments across colocations and military-grade environments, aligning with compliance standards and leveraging DoD security clearance.

**Security Clearance and Access**

* DoD Security Clearance - Holds a Department of Defense (DoD) security clearance (Navy).
* Access - Authorized to access Colocations and Military bases with high-level clearance requirements.
* Essential Employee - Vaccinated essential employee, commitment to security and safety protocols.

**Honors and Awards**

* **Strathmore’s Who’s Who** - Outstanding Professional in Information Technology
* **Dell, Inc.** - Exceptional Performance Award in Data Center development and support.
* **F5 Networks** - Exceptional Nomination Award in Development Lab and support.
* **Cisco Systems** - Exceptional Performance Award in Data Center development and support.

**Education**

* Harvard Business School (2018-2019)
* Business Negotiations Certificate
* Stanford University (2013-2015)
* Stanford Advanced Computer Security Certificate
* Cisco Network Academy (July 2000)
* CCNA – Routing and Switching
* UC Davis (1997-1999)
* Undergraduate Certificate in Network Administration and Management
* Undergraduate Certificate in Routing and Switching

**Scripting**: Automation

* Ansible, Python and Bash

**Automation** Proficiency:

* **Ansible Automation** - Utilized Ansible to automate repetitive tasks, including IP reservations and DNS configurations on Firewalls, as well as network scripts.
* **Terraform Automation** - connect to AWS or Azure Cloud to automate repetitive tasks, including IP reservations and DNS configurations on Firewalls, as well as network scripts.
* **Vendor-Specific Automation** - Developed automation solutions for various vendors, such as Dell, Cisco, Arista, Mellanox and Palo Alto Networks.

**Professional Experience**

**Network Engineer | Network Optics Qualification Lab | Multi-Vendor Optics**  
**Oracle (Sept 2024 – Present) | Contract**

* Design, deploy, and test 100G/200G/400G/800G optical transceivers (Accelight, Eoptolink, Finisar) on Arista, Cisco, Juniper, and InfiniBand platforms for Oracle Cloud Infrastructure.
* Automate test workflows using Python & JSON, execute automated test plans in KIWI TCMS, troubleshoot multi-vendor optics, and validate against Oracle standards.
* Manage tickets (JIRA), inventory (Netbox), and documentation (Confluence). Prepare cutsheets, topologies, and test run logs.
* Arista Fabric: Deployed 7010 TOR, 7280R, and 7500R in scalable leaf-spine designs, leveraging EOS programmability for automation and reliability.
* Migration Support: Assisted in Arista-to-Cisco transitions, translating EOS configs & CloudVision workflows to Cisco DNA Center.

**Sr Network Engineer | Automation & Orchestration | Multi Data Centers**  
**Cisco Systems (Jan 2024 – Aug 2024) | Contract**

* Delivered L1–L3 support across Cisco, Juniper, Extreme, Nokia & Ericsson environments; configured OSPF, BGP, EIGRP; provided console & management connectivity.
* Built automation & orchestration workflows using Cisco NSO, Netbox, Ansible, Python, REST API, JSON; integrated AWS/Azure clouds into MX routing.
* Managed UCS C220/C240 deployments, VMware vSphere operations, and Linux OS installs (bare metal + VMs).
* Migration: Supported Arista-to-Cisco NSO-managed migrations, ensuring automation parity and smooth feature alignment across data centers.

**Sr Systems Engineer | Edge Platforms & Colocations**  
**Dell Technologies (Oct 2023 – Dec 2023) | Contract**

* Drove technical sales strategy for VxRail products, enabling customer adoption of Dell EMC solutions.
* Delivered data center architecture sessions and solution designs tailored to enterprise customers.
* Prepared hardware/software proposals, requisitions, and invoices for enterprise IT projects.

**Sr Network Engineer | InfiniBand Development | Hyperscale DCs**  
**Quanta Computer (May 2023 – Oct 2023) | Contract**

* Designed & deployed 800G XDR InfiniBand networks (Microsoft/Facebook DCs) using QM9700/QM9790 spines & 200G ConnectX HBAs.
* Configured EVPN/VxLAN on Juniper QFX & MX; automated with Git & Ansible.
* Hardened AWS environments with IAM roles, VPN gateways, VPC Flow, CloudTrail, and Athena analysis.
* Deployed Cisco Catalyst 3650 (MGMT) and Arista 7800R3 (Data) in leaf-spine.
* Migration: Transitioned Arista EOS-based fabrics to Cisco platforms, validating automation & scaling consistency.

**Sr Network Engineer | Cisco ACI Development | Multi Data Centers**  
**Cisco (May 2022 – Apr 2023) | Contract**

* Implemented Cisco ACI (APIC controllers, Leaf/Spine, ANP, EPG, VRF, vPC) across enterprise data centers.
* Integrated ACI with InfiniBand for hybrid workloads; deployed Cisco UCS & SE-NODE servers.
* Designed EVPN/VxLAN architectures with Juniper QFX/MX & Palo Alto firewalls.
* Migration: Enabled Arista → Cisco ACI migrations, translating automation policies & validating workloads during DC backbone upgrades.

**Sr Network Engineer | Production | Campus Networking**  
**NVIDIA (Nov 2021 – Apr 2022) | Contract**

* Managed campus-wide networking with Cisco Meraki, Catalyst 9400, Juniper Mist, supporting GPU labs.
* Designed & deployed Google Cloud VPC, VPN (static & dynamic), Cloud Armor, CDN, and monitoring.
* Documented as-built network conditions in Netbox.
* Arista Fabric: Deployed 7010, 7280R, 7500R switches; leveraged EOS automation.
* CloudVision: Implemented for centralized provisioning, compliance, and monitoring.
* Migration: Supported NVIDIA’s Arista → Cisco Catalyst transitions across GPU labs.

**Data Center Consultant | Production | Campus & Colocation**  
**LAFO (Feb 2021 – Oct 2021) | Contract**

* Supported deployment & migration of Dell, HP, IBM servers in colocations; migrated workloads using VMware HCX.
* Designed connectivity & provided remote access for business-critical applications.
* Arista Fabric: Implemented 7010/7280R with EOS automation for financial workloads.

**Data Center Engineer | Self-Driving Development | Factory & Colocations**  
**TESLA (Aug 2020 – Jan 2021) | Contract**

* Implemented Juniper Contrail SD-WAN across multiple sites for cloud-ready connectivity.
* Deployed Arista Big Switch BMF + SDN (Cumulus, Pluribus). Configured Arista, Cisco, Mellanox, Juniper gear.
* Arista Fabric: Designed 7010, 7280R, 7500R leaf-spine networks, leveraging EOS programmability.
* Migration: Performed Arista → Cisco migration testing, translating configs & validating automation models.

**Solution Architect | InfiniBand | Multi Datacenters**  
**NVIDIA (Aug 2019 – Jul 2020) | Contract**

* Led PoCs for 400G InfiniBand networks during Mellanox acquisition; conducted feasibility studies for Ethernet vs InfiniBand.
* Designed scalable high-performance architectures for GPU/AI workloads.

**Data Center Engineer | Firewall Development | Data Centers**  
**F5 Networks (Feb 2019 – Jul 2019) | Contract**

* Built ACI, Ethernet, Fibre Channel networks for F5 labs; supported GS engineers via ServiceNow.
* Deployed Apple, Dell, HP, Inspur servers; troubleshot connectivity via iDRAC/ILO/BMC.

**Sales Engineer | Data Center Solutions**  
**DellEMC (Aug 2018 – Jan 2019) | Full-time**

* Partnered with account executives to drive data center product sales; consistently hit quotas.
* Provided technical presentations, RFP support, and client engagement.

**Solutions Architect | Networking/Compute/IoT | Solutions Center**  
**Dell Technologies (Oct 2015 – Sept 2018) | Full-time**

* Led IoT briefings, VR/AR/MR sessions, and POCs for enterprise clients.
* Managed Dell networking portfolio (campus & DC); deployed PowerConnect, InfiniBand, Dell S/Z Series.
* Integrated 3rd-party SDN solutions: Big Switch, Pluribus, SONIC, Midokura, IP Infusion.

**Network Development Engineer | Lab Infrastructure**  
**Dell (Jul 2012 – Sept 2015) | Full-time**

* Designed rack elevations & topologies for Santa Clara Lab using IXIA & Spirent traffic testing.
* Deployed Dell S/Z Series switching platforms; managed Fibre Channel (Brocade M6505, DCX8510).
* Performed zoning, WWN aliasing, trunking, and FC-FC routing.